

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-29 (Canceled).

30. (Currently Amended) An aerosol generator, comprising:
a fluid passage between a first layer and a second layer, the first layer and having a surface bonded to a surface of the second layer, and the first layer and the second layer at least partially defining the fluid passage;
a fluid supply disposed to provide a fluid in liquid phase to the fluid passage;
a heater disposed to volatilize the fluid in the fluid passage; and
a single outlet disposed to receive the volatilized fluid and direct the volatilized fluid out of the fluid passage.

31. (Previously Presented) The aerosol generator of Claim 30, wherein the first layer comprises a material selected from the group consisting of alumina, zirconia, silica and mixtures thereof and wherein the second layer comprises a material selected from the group consisting of alumina, zirconia, silica and mixtures thereof.

32. (Previously Presented) The aerosol generator of Claim 30, wherein the heater is arranged to conduct heat, through the first and/or second layer, to the fluid in the fluid passage.

33. (Previously Presented) The aerosol generator of Claim 30, wherein the heater is in electrical contact with first and second contacts which pass an electrical current through the heater, and wherein the volatilized fluid is ejected from the fluid passage when the electrical current is passed through the heater.

34. (Previously Presented) The aerosol generator of Claim 30, wherein the fluid comprises a medicated material.

35. (Previously Presented) The aerosol generator according to Claim 30, further comprising a chamber connected to receive the fluid in liquid phase from the fluid supply and to provide the fluid to the fluid passage, wherein the chamber contains a predetermined amount of the fluid in liquid phase.

36. (Currently Amended) An aerosol generator, comprising:
a first layer and a second layer at least partially defining a fluid passage therebetween, the first layer having a surface bonded to a surface of the second layer, the fluid passage having an inlet at one end and an outlet at a downstream portion of the fluid passage;
a fluid supply disposed to provide a fluid in liquid phase to the inlet of the fluid passage;

a heater disposed to volatilize fluid in the fluid passage; and
a pressure sensor sensitive to pressure drops for actuating the heater
via circuitry to volatilize the fluid in the fluid passage;

wherein the volatilized fluid exits the fluid passage only at the outlet
~~and is directed into the atmosphere whereby~~ such that the volatilized fluid forms an
aerosol.

37. (Previously Presented) The aerosol generator of Claim 36, wherein the first layer comprises a material selected from the group consisting of alumina, zirconia, silica and mixtures thereof and wherein the second layer comprises a material selected from the group consisting of alumina, zirconia, silica and mixtures thereof.

38. (Previously Presented) The aerosol generator of Claim 36, wherein the heater is arranged to conduct heat, through the first and/or second layer, to the fluid in the fluid passage.

39. (Previously Presented) The aerosol generator of Claim 36, wherein the heater is in electrical contact with first and second contacts which pass an electrical current through the heater, and wherein the volatilized fluid is ejected from the fluid passage when the electrical current is passed through the heater.

40. (Previously Presented) The aerosol generator of Claim 36, wherein the fluid comprises a medicated material.

41. (Previously Presented) The aerosol generator according to Claim 36, further comprising a chamber connected to receive the fluid in liquid phase from the fluid supply and to provide the fluid to the fluid passage, wherein the chamber contains a predetermined amount of the fluid in liquid phase.

42. (Previously Presented) The aerosol generator of Claim 36, wherein the fluid passage is linear.

43. (Previously Presented) The aerosol generator of Claim 36, wherein the outlet is disposed at an angle with respect to an axis of the fluid passage.

44. (New) An aerosol generator, comprising:
a first layer and a second layer;
a fluid passage between the first layer and the second layer, the fluid passage having an inlet at one end and an outlet downstream of the inlet end, the fluid passage being defined by opposed flat surfaces of the first layer and the second layer from the inlet to the outlet, the flat surfaces being bonded together;
a fluid supply disposed to provide a fluid in liquid phase to the inlet of the fluid passage; and
a heater disposed to volatilize fluid in the fluid passage;
wherein the volatilized fluid exits the fluid passage at the outlet and forms an aerosol.

45. (New) The aerosol generator of Claim 44, wherein the opposed flat surfaces are parallel to each other.